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MIDMARK®

Power Procedures Chair

For models:
641 (all)

CE

User's Guide

003-1709-00 (Rev A)

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Product Information

(The information below is required when calling for service)

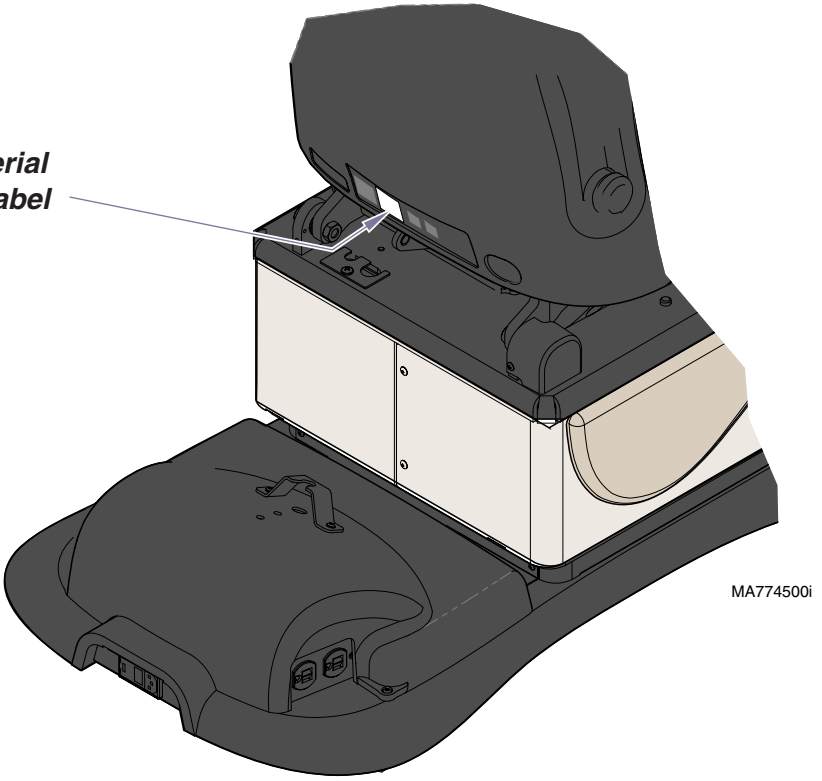
Dealer *[name / phone]:*

Date of Purchase:

Model / Serial Number:

Midmark Authorized Service Company *[name / phone]:*

Model / Serial Number Label



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Important Information

Safety Symbols

Caution
Indicates a potentially hazardous situation which could result in injury if not avoided.

Equipment Alert
Indicates a potentially hazardous situation which could result in equipment damage if not avoided.

Note
Amplifies a procedure, practice, or condition.

Consult User Guide for important information.

Proper shipping orientation

Fragile

Type B, Applied Part

Protective earth ground

Emergency stop

Keep dry

3 Maximum stacking height (**palletted** units)

6.3A 250V TYPE T Fuse rating specification

IPX1 Protected against dripping water

Duty Cycle (motor run time): 30 seconds ON, 5 minutes OFF

This product has been evaluated with respect to electrical shock, fire & mechanical hazards only, in accordance with UL60601-1 and CAN/CSA C22.2 NO. 601.1.

Transportation / Storage Conditions

Ambient Temperature Range: ..... +41°F to 100°F (+5°C to +38°C)
Relative Humidity ..... 10% to 90% (non-condensing)
Atmospheric Pressure ..... 500hPa to 1060hPa (0.49atm to 1.05atm)

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Intended Use

This product is intended to be used as a chair / table to provide positioning and support of patients during general examinations and procedures conducted by qualified medical professionals.

Electrical Requirements

Caution

When using high frequency surgical devices or endocardial catheters:

- Use non-conductive material to insulate patient from metal portions of the chair.
- Consult operating instructions for the device before using in conjunction with drawer or upholstery heater.

Failure to comply may result in electric shock or burns to patient.

Electromagnetic Interference

This Midmark chair is designed and built to minimize electromagnetic interference with other devices. However, if interference is noticed between another device and this chair:

- Remove interfering device from room
- Plug chair into an isolated circuit
- Increase seperation between chair and interferring device
- Contact Midmark if interference persists

Electromagnetic Compliance Statements per EN60601-1-2 are available online:
Go to: ***www.documark.com*** *(Use the* ***FIND*** *feature to locate:* ***077-0501-00****)*

(or click on button below)

Compliance Info.

Authorized CE Representative

Countries in the EEC should direct all questions, incidents, and complaints to Midmark's Authorized CE representative listed below:

Promotal
22, Rue De St. Denis
53500 Ernee,
FRANCE
Phone: 33-2-430-517-76
Fax: 33-2-430-569-10

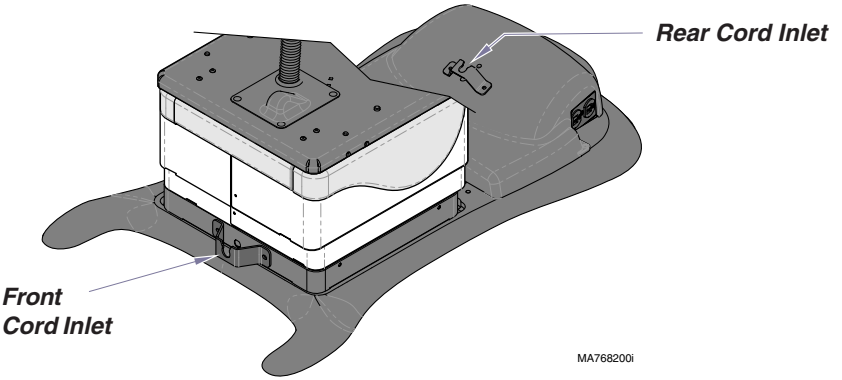
Disposal of Equipment

At the end of product life, the chair, accessories, and other consumable goods may become contaminated from normal use. Consult local codes and ordinances for proper disposal of equipment, accessories and other consumable goods.

Safety Instructions

Hand / Foot Control Connection

There are two hand / foot control cord inlets. One is located on the base column at the foot end of the chair, and one is located on the PC board cover at the head end. These cord inlets are interchangeable.



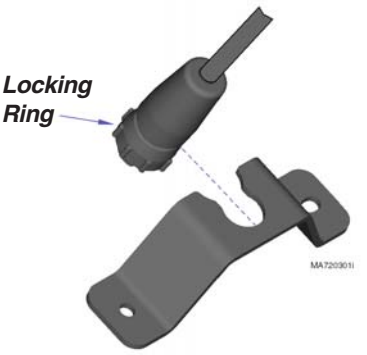
Equipment Alert

Never plug hand / foot control cord into any other receptacle. Doing so may damage equipment.

To connect the hand & foot control cords...

A. Slide narrow portion of cord connector into bracket.
B. Connect cord to inlet. (See Note)
C. Tighten locking ring.

Note: *The cord connector is "keyed" and must be oriented properly to connect.*



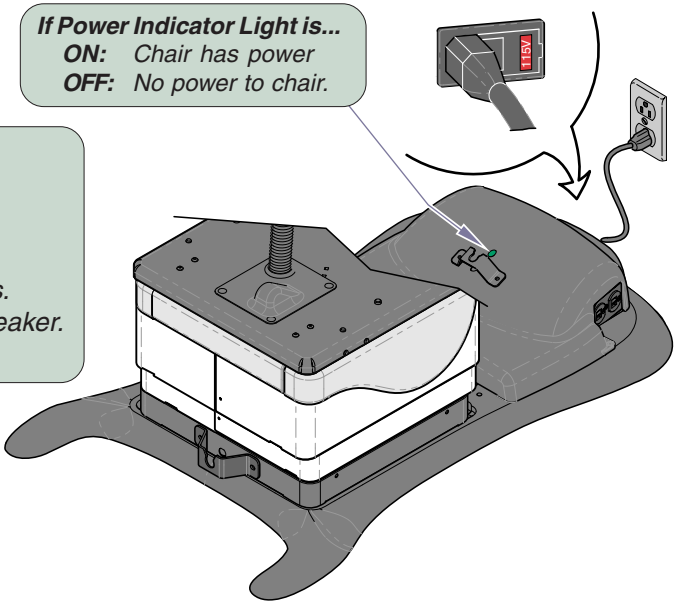
Crash Avoidance System

The Crash Avoidance System prevents the headrest & foot extension from colliding with the floor *(or chair shrouds)* by disabling certain functions if a potential crash position is detected. When this system is activated, the PC board will sound several audible "beeps" and disable any or all of the following functions *(depending on the chair position)*: *Base Down*, *Back Down*, *Tilt Up / Down,* & *Foot Down*.

Operation

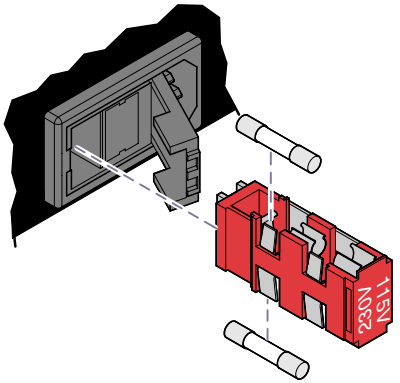
Power to the Chair

If Power Indicator Light is...
ON: *Chair has power*
OFF: *No power to chair.*



If the chair has no power...
All functions will be inoperable.

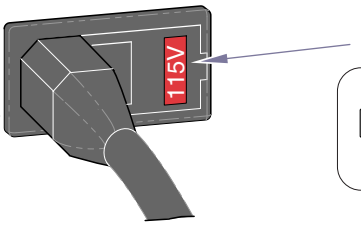
Before calling for service...
A. Check power cord connections.
B. Check / reset facility circuit breaker.
C. Check / replace chair fuse(s).



Before replacing fuses...
Disconnect power cord from chair.

To replace fuses...
[Refer to Specifications section for correct fuse size & ratings]
A. Open the fuse holder cover.
B. Remove fuse holder & faulty fuse(s).
C. Install new fuse(s), then replace fuse holder.

Attention: *Voltage setting that shows thru window of fuse holder cover must match facility supply voltage.*



Voltage Setting

Equipment Alert
Incorrect voltage setting will result in damage to the chair.

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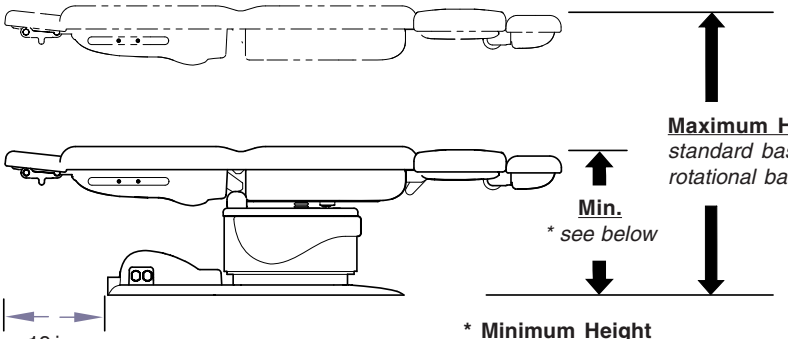
Base Up / Down

To move the Base UP or DOWN...
Press and hold the appropriate button.

Movement stops when...
Up / Down button is released.
Maximum / minimum position is reached.
Stop button is pressed.



Maximum Height
standard base: 40 in. (101.6 cm)
rotational base: 43.5 in. (110.5 cm)

Min.
** see below*

*** Minimum Height**
standard base: 19 in. (48.2 cm)
rotational base: 22.5 in. (57.1 cm)

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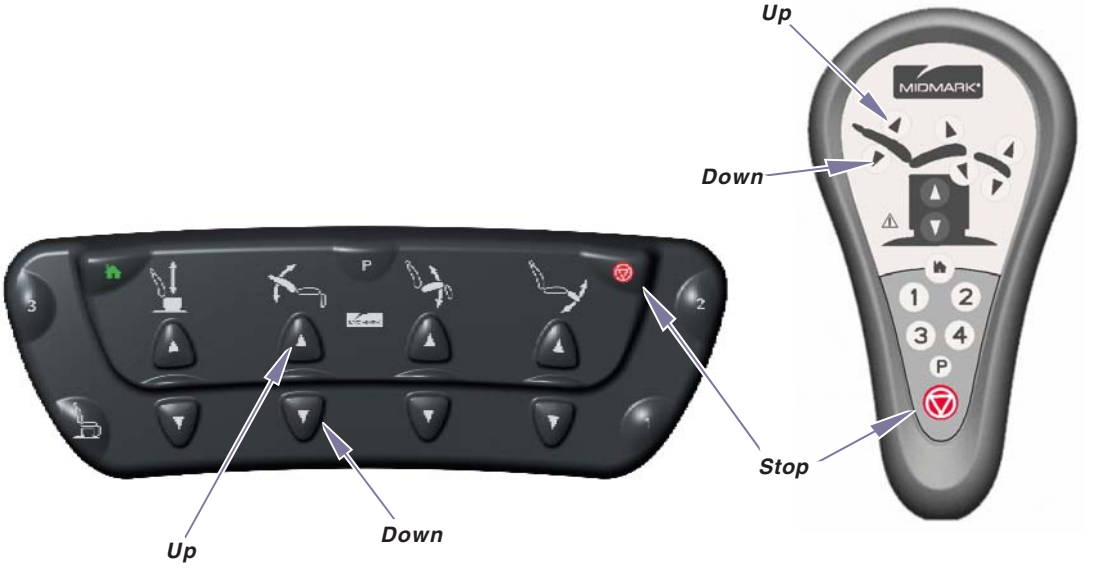
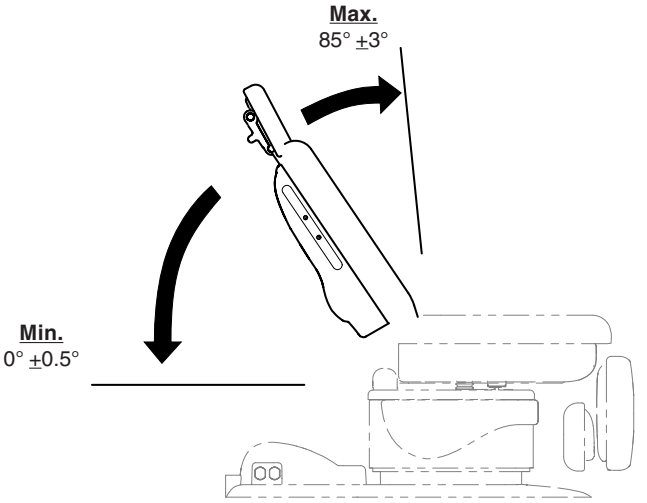
Back Up / Down

To move the Back UP or DOWN...
Press and hold the appropriate button.

Movement stops when...
Up / Down button is released.
Maximum / minimum position is reached.
Stop button is pressed.





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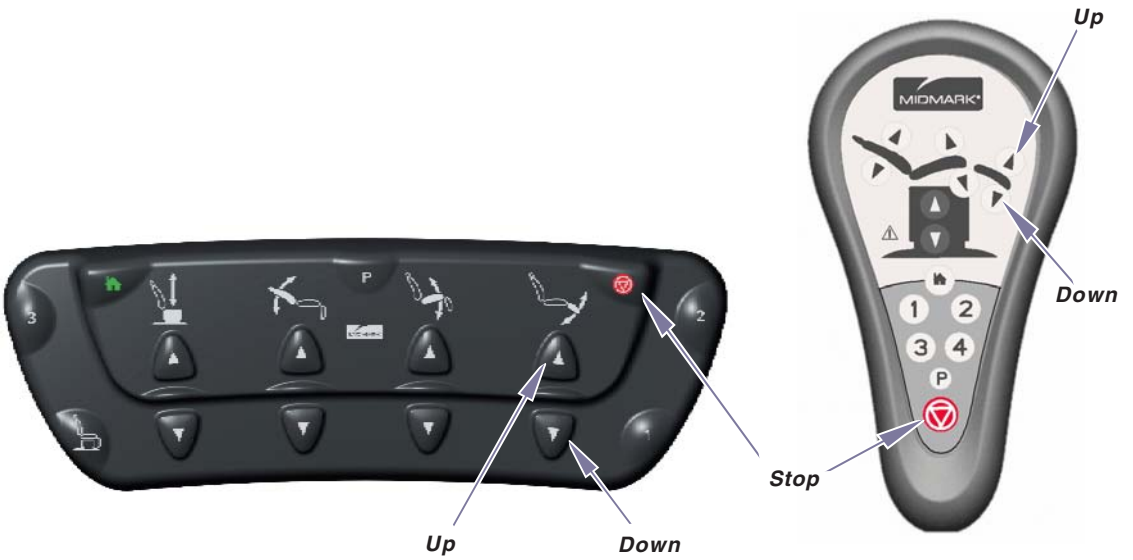
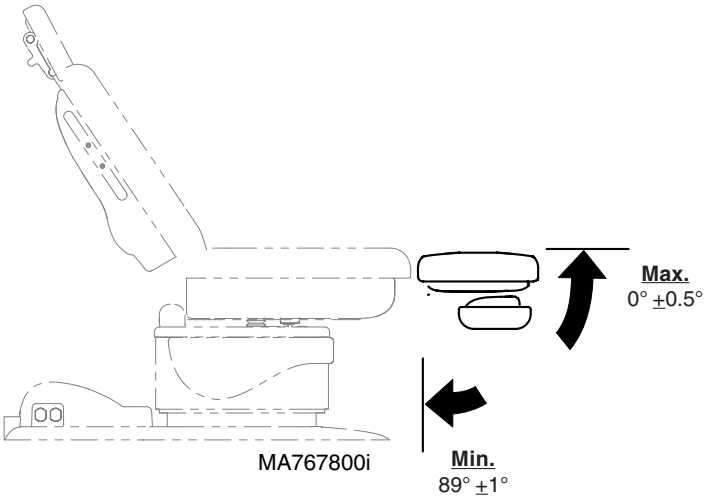
Foot Up / Down

To move the Foot UP or DOWN...
Press and hold the appropriate button.

Movement stops when...
Up / Down button is released.
Maximum / minimum position is reached.
Stop button is pressed.

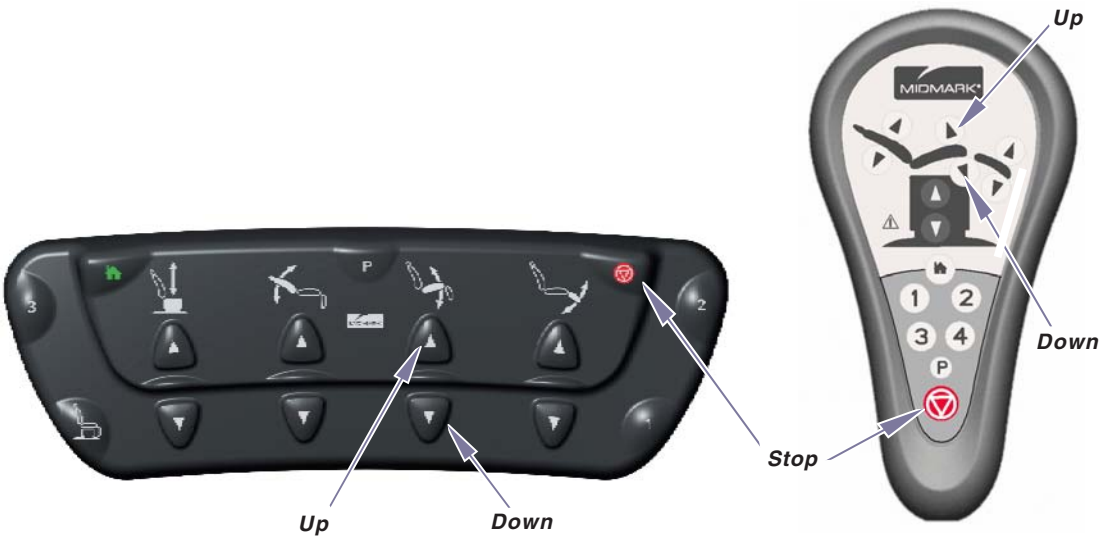


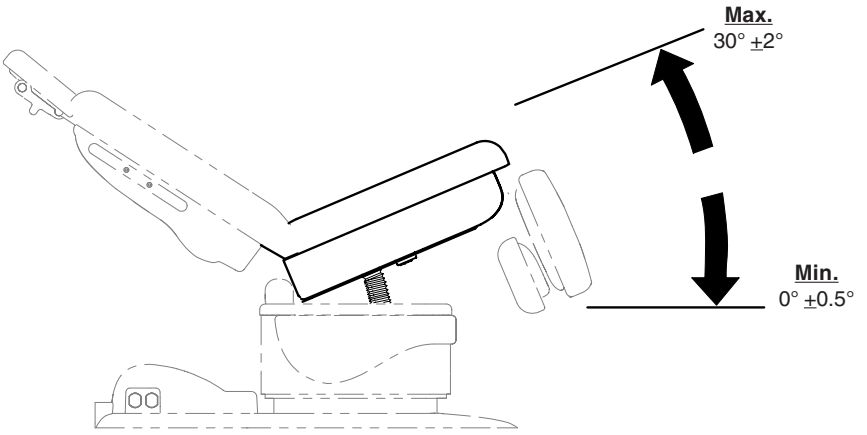


Tilt Up / Down

To Tilt the seat section UP or DOWN...
Press and hold the appropriate button.

Movement stops when...
Up / Down button is released.
Maximum / minimum position is reached.
Stop button is pressed.





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Activating Multiple Functions

The Base / Back / Foot / Tilt functions may be activated at the same time.

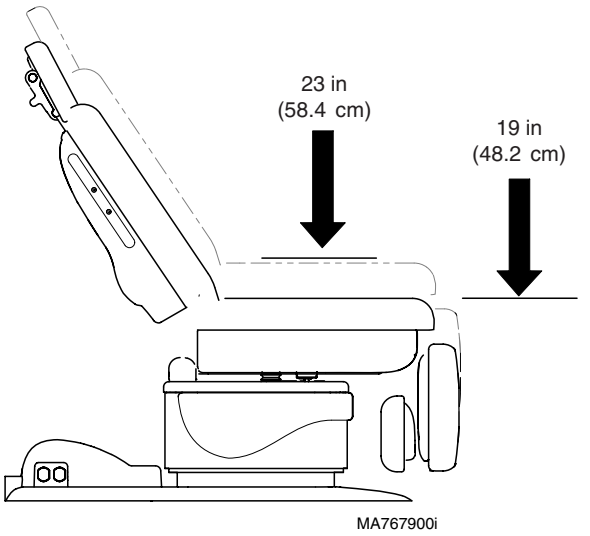
To activate multiple functions ....
Simultaneously press & hold the desired buttons.
(ex. Tilt Down & Foot Down)

Home Function

The Home function automatically lowers the chair so that your patient may easily mount or dismount the chair.

To lower the base to 23 in. (58.4 cm)....
Press, then immediately release the Home button.

To lower the base to 19 in. (48.2 cm)...
Press and hold the Home button until you hear a single "beep".



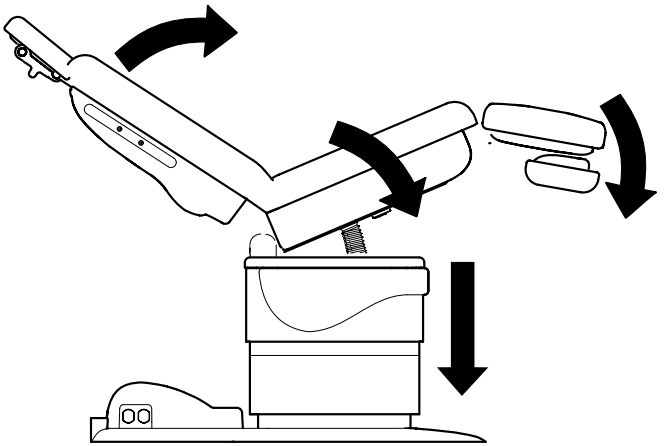
Movement stops when...
"Home" position is reached.
Stop button is pressed.

QuickChair™ Function

The QuickChair™ function activates the Base Down / Tilt Down / Foot Down / Back Up functions simultaneously. This function can only be activated using the foot control.

To activate the QuickChair™ function....
Press and hold the QuickChair™ button.

Movement stops when...
"Chair" position is reached.
QuickChair™ is released.
Stop button is pressed.



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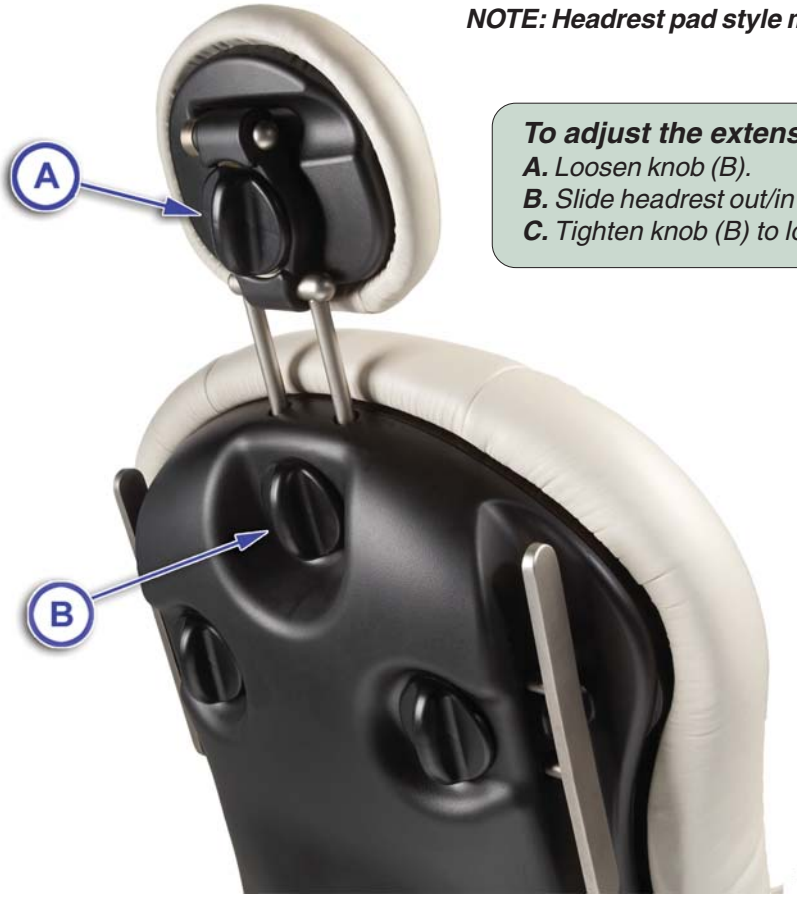
Headrest Positioning

CAUTION
Headrest must be securely locked in place before performing any exam or procedure.

To adjust the pivot angle...
A. *Loosen knob (A).*
B. *Pivot headrest to desired position.*
C. *Tighten knob (A) to lock in place.*

NOTE: Headrest pad style may vary.

To adjust the extension length...
A. *Loosen knob (B).*
B. *Slide headrest out/in to desired position.*
C. *Tighten knob (B) to lock in place.*



Side Rail Adjustment

To adjust the side rail (out / in)...
A. *Loosen adjustment knob for desired side rail.*
B. *Slide side rail out/in to desired position.*
C. *Tighten adjustment knob to lock in place.*

Foot Extension

The retractable foot extension lengthens the patient support area to accomodate taller patients.

Equipment Alert
The weight capacity of the foot extension is 120 lbs (54kg). Exceeding this limit may result in equipment damage.

To extend the foot section..
A. *Squeeze release lever on either side of foot section.*
B. *Pivot foot extension upward until it locks into place.*

To retract foot extension..
A. *Squeeze release lever on either side of foot section.*
B. *Pivot foot extension back to stowed position.*

Chair Receptacle *(optional feature)*

The chair receptacle provides power for accessories used during medical procedures. Power to the receptacle will interrupted if the maximum load is exceeded.

Maximum Load: ..... 115 VAC, 3 amps, 50/60 Hz

> ***Equipment Alert***
> *Exceeding the maximum load for the receptacles may result in blown fuses. If this occurs, all chair functions will be disabled until fuses are replaced. Refer to* ***Power To The Chair*** *section for fuse replacement procedure.*

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Programming Chair Positions *(optional feature)*

The Programming feature allows you to easily recall frequently used chair positions.

To program a chair position....

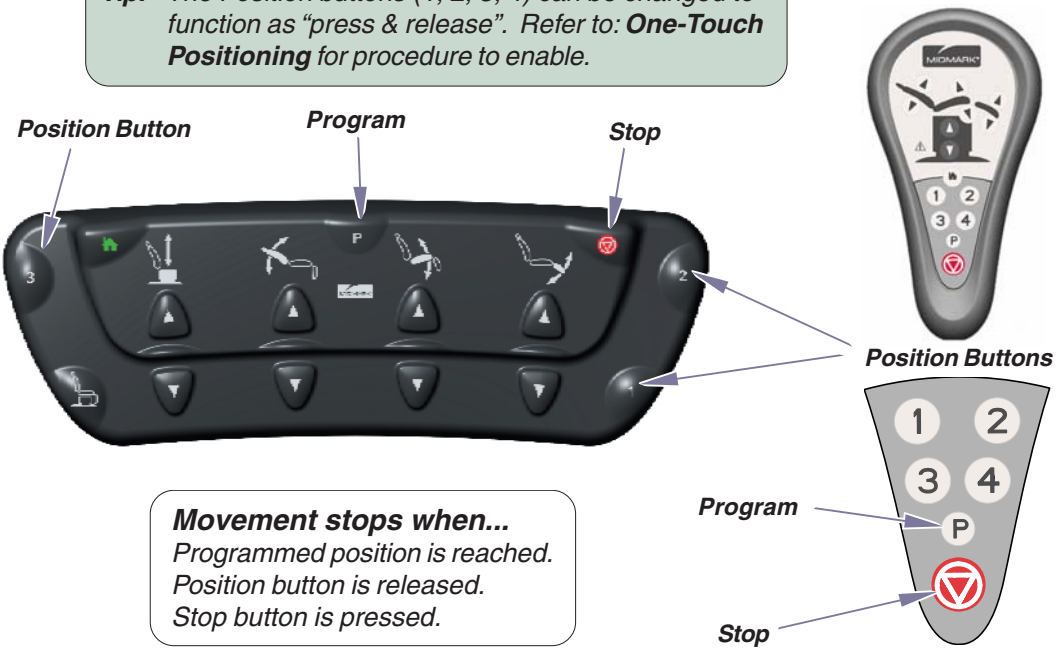
A. Move the chair to desired position.
B. Press the Program button. (you will hear a single "beep")
C. Press the desired Position button (1, 2, 3, or 4). (three "beeps")

Tip: *You must press the desired Position button within five seconds of pressing the Program button.*

To recall a programmed position....

Press and hold the desired Position button (1, 2, 3, or 4).*

Tip: *The Position buttons (1, 2, 3, 4) can be changed to function as "press & release". Refer to:* ***One-Touch Positioning*** *for procedure to enable.*



Movement stops when...

Programmed position is reached.
Position button is released.
Stop button is pressed.

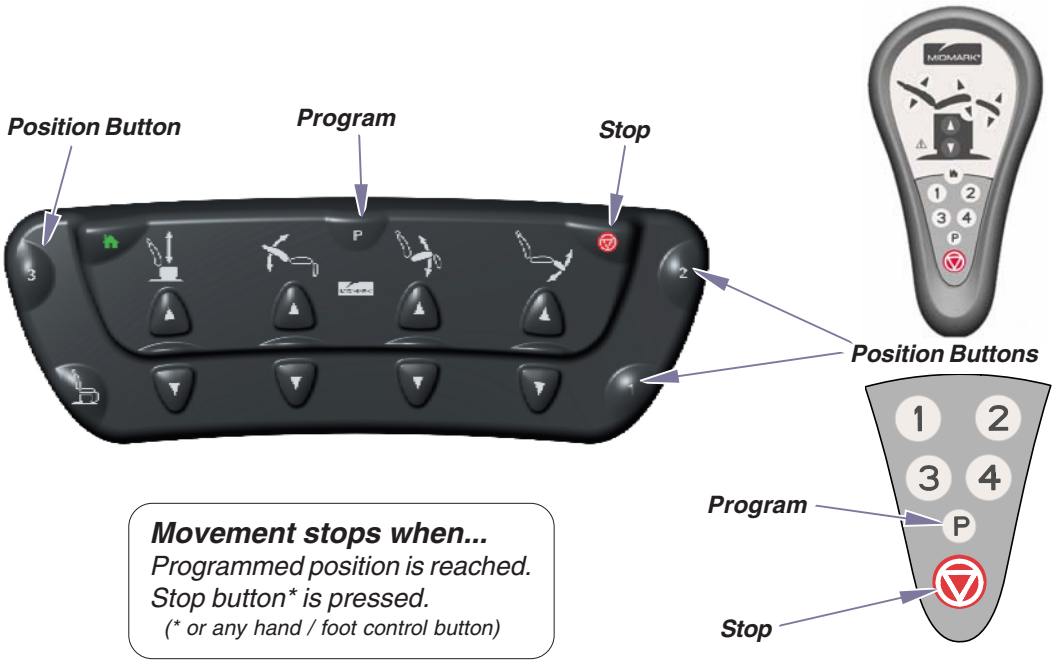
One-Touch Positioning (Programmable models only)

During normal operating mode, the Position buttons must be pressed & held until the programmed position is reached. When the One-Touch Positioning feature is activated, the Position buttons function as “press & release”.

To enable (or disable) the One-Touch Positioning feature....
Press & hold the Stop & Program buttons simultaneously.
(after five seconds, you will hear three “beeps” if successful)

To recall a programmed position....
Press the desired Position button (1, 2, 3, 4) for two seconds.

Tip: *After you hear a single “beep”, you may release the button & the chair will continue to move to the programmed position.*



Movement stops when...
Programmed position is reached.
Stop button is pressed.*
(or any hand / foot control button)*

Rotational Base *(optional feature)*

To rotate the chair base...
A. Press and release the brake pedal.
B. Rotate the chair to desired position.

To lock base in position....
Press and release the brake pedal.

Note: *The base will automatically lock in position after two minutes*

Cleaning

Upholstery

Spot cleaning ..... use mild soap and water
Difficult stains ..... use a mild solvent
Disinfecting ..... use 20:1 diluted bleach solution (water:bleach)

> ***Equipment Alert***
> *The upholstery is resistant to most medicinal-type stains, but may be damaged by solvents & dyes. Immediately remove any fluids spilled on the upholstery.*

Painted / Plastic Surfaces

Clean the chair weekly, wiping the painted metal and plastic surfaces with a clean, soft cloth, and mild cleaners. Periodic applications of common furniture wax will ease cleaning and maintain the finished luster of the chair.

Preventive Maintenance

Periodically inspect the following areas:

- Power cord should be free of cuts or other visible damage.
- All fasteners should be present and tightened securely.
- All mechanical functions should operate properly.

Have an authorized service technician inspect your chair every six months.

Calling For Service

> ***Note***
> *Model / Serial number information is required when calling for service.*

If service is required, contact your Midmark dealer.

To contact Midmark directly:

1-800-Midmark (1-800-643-6275) or 937-526-3662
8:00 am until 5:00 pm. Monday through Friday (EST)
[excluding standard U.S. holidays]

Troubleshooting

Chair 'beeps' and one or more functions will not operate.*

Step 1: If foot section is extended, move it to the stowed position.
*(Refer to **Foot Extension** section).*

Step 2: Run Base Up, Back Up, Foot Up functions to their max. position.

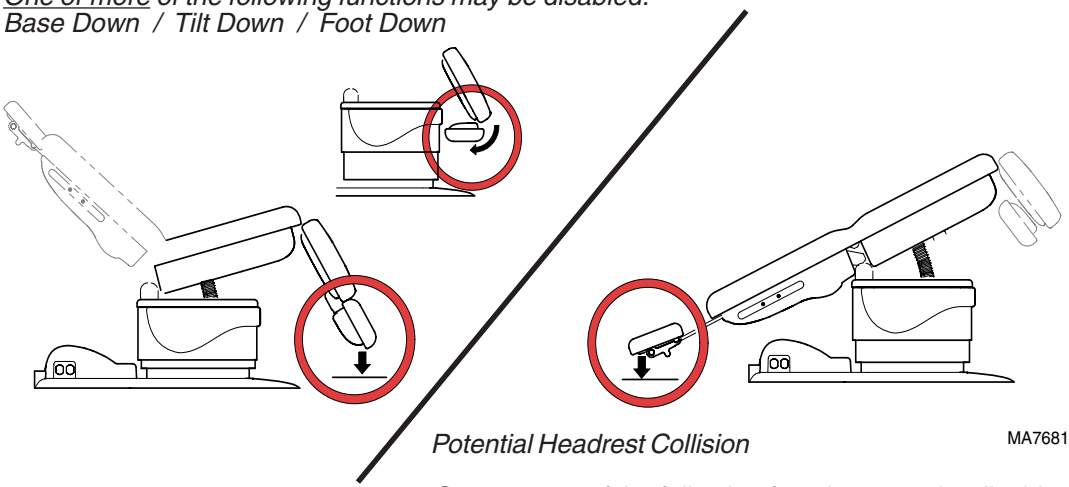
Step 3: Try inoperable function(s) again.
If function(s) remain inoperable, contact your authorized service provider.

**** Crash Avoidance System***

The Crash Avoidance System prevents the headrest & foot extension from colliding with the floor (or chair shrouds) by disabling certain functions if a potential crash position is detected. When this system is activated, the PC board will sound several audible "beeps" and disable any or all of the following functions (depending on the chair position): Base Down, Back Down, Tilt Up / Down, & Foot Down.

Potential Foot Extension Collision

<u>One or more</u> of the following functions may be disabled:
Base Down / Tilt Down / Foot Down



Potential Headrest Collision

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<u>One or more</u> of the following functions may be disabled:
Base Down / Tilt Up / Back Down

Specifications

Weights & Electrical Specifications

Patient Weight (Maximum) ..... 450 lbs (204.1 kgs)

Weight of Chair:
641 ***(w/standard base)*** ..... 440 lbs (200 kg)
w/packaging & skid ..... 495 lbs (224 kg)
641 ***(w/rotational base)*** ..... 525 lbs (238 kg)
w/packaging & skid ..... 585 lbs (265 kg)

Power Cord: ..... 8 ft. (243.8 cm) long

Electrical Requirements: ..... [See *Model I.D. / Compliance Charts*]

Foot / Hand Control Voltage: ..... 10 VAC, SELV (Safety Extra Low Voltage)

Duplex Receptacle (optional)
maximum load: ..... 115 VAC, 3A, 50/60 Hz

Fuses:
Located at power cord inlet:
F1 & F2 ..... 6.3 A, 250V, Type T, 5 x 20 mm

Duty Cycle *(motor run time)*: ..... Intermittent Operation
[30 seconds ON / 5 minutes off]

Classifications: ..... Class 1, Type B Applied Part

Protection against ingress of fluids: ..... Ordinary Equipment
Foot Control only: IPX1

Regulatory Compliance: ..... [See *Model I.D. / Compliance Charts*]

Equipment not suitable for use in the presence of a flammable anesthetic mixture with air, or with oxygen, or nitrous oxide.

Model Identification / Compliance Chart

Fire Code Ratings

All standard upholstery sets comply with: California Bureau of Home Furnishing Technical Bulletin 117
Optional upholstery sets are available that comply with:California Bureau of Home Furnishing Technical Bulletin 133.

Model	Description	Complies To:					Electrical Ratings:		
		UL 60601-1	CAN/CSA 22.2, #601.1-M90	EN 60601-1	EN 60601-1-2 (EMC)	CE	VAC +/-10%	Amps	Cycles (Hz)
641-002	**Power Procedures Chair** *(Non-Programmable)*	•	•	•	•	•	***Configurable*** 115 230	8.5 4.5	50 / 60
641-003	**Power Procedures Table** *(Programmable) w/ Receptacles*	•	•	•	•	•	115	11.5	50 / 60
641-004	**Power Procedures Chair** *(Non-Programmable) w/Rotational Base*	•	•	•	•	•	***Configurable*** 115 230	8.5 4.5	50 / 60
641-005	**Power Procedures Table** *(Programmable) w/ Rotational Base*	•	•	•	•	•	***Configurable*** 115 230	8.5 4.5	50 / 60

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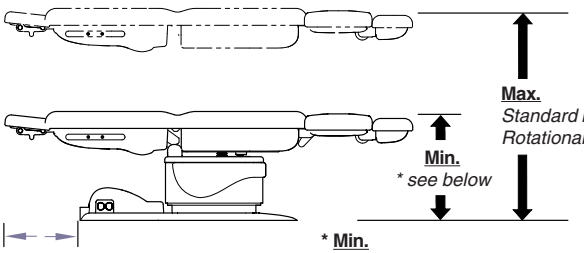
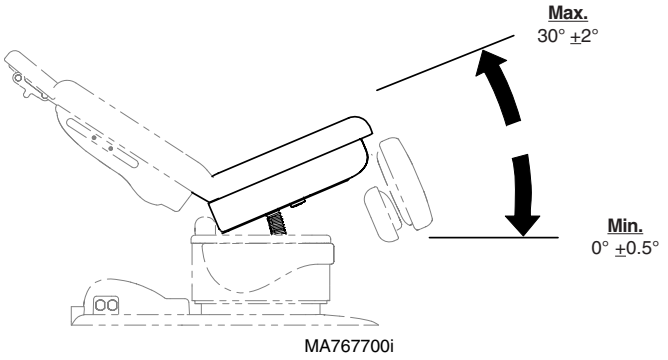
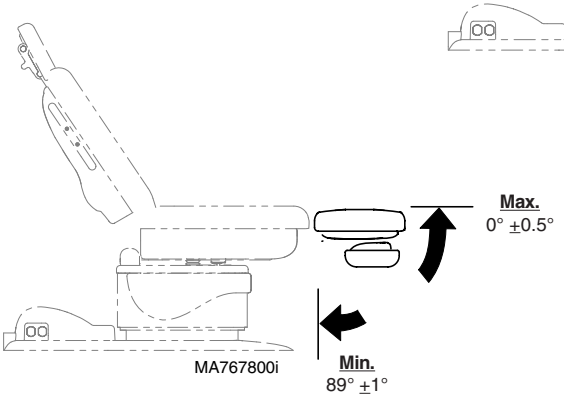
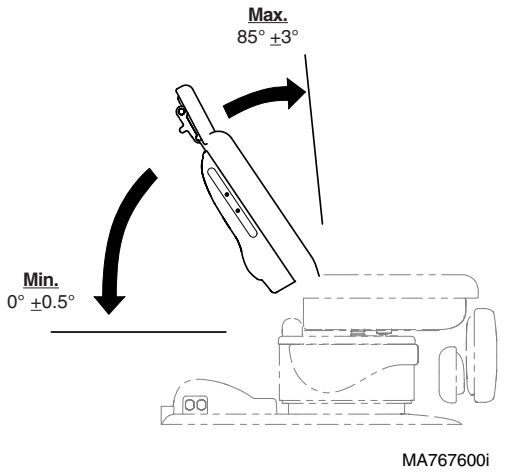
Range of Motion



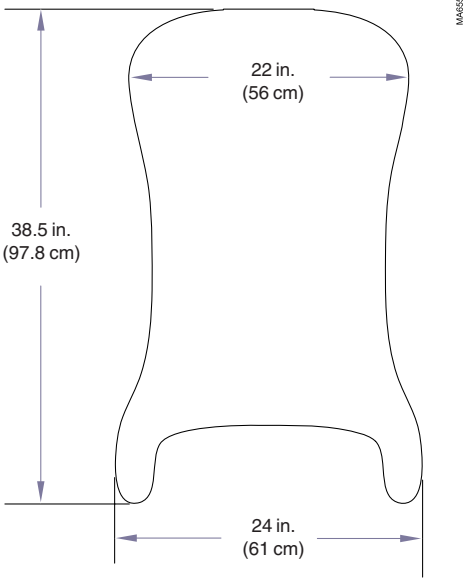




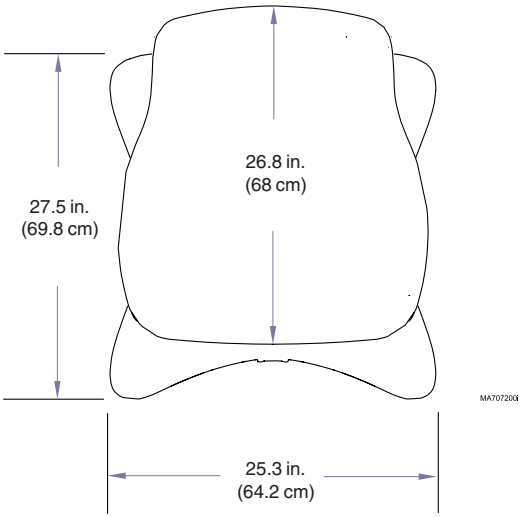


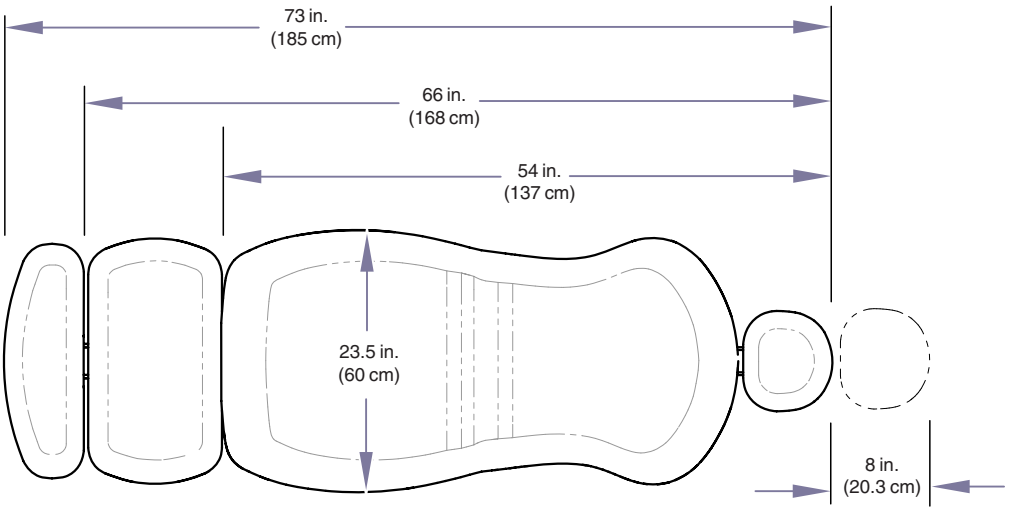
Dimensions

Models w/ Standard Base
Base Casting



Models w/ Rotational Base
Base Castings





Warranty Information

Limited Warranty

SCOPE OF WARRANTY

Midmark Corporation (“Midmark”) warrants to the original purchaser its new Alternate Care products and components (except for components not warranted under “Exclusions”) manufacured by Midmark to be free from defects in material and workmanship under normal use and service. Midmark’s obligation under this warranty is limited to the repair or replacement, at Midmark’s option, of the parts or the products the defects of which are reported to Midmark within the applicable warranty period and which, upon examination by Midmark, prove to be defective.

APPLICABLE WARRANTY PERIOD

The applicable warranty period, measured from the date of delivery to the original user, shall be one (1) year for all warranted products and components.

EXCLUSIONS

This warranty does not cover and Midmark shall not be liable for the following: (1) repairs and replacements because of misuse, abuse, negligence, alteration, accident, freight damage, or tampering; (2) products which are not installed, used, and properly cleaned as required in the Midmark “Installation” and or “Installation / Operation Manual for this applicable product. (3) products considered to be of a consumable nature; (4) accessories or parts not manufactured by Midmark; (5) charges by anyone for adjustments, repairs, replacement parts, installation, or other work performed upon or in connection with such products which is not expressly authorized in writing in advance by Midmark.

EXCLUSIVE REMEDY

Midmark’s only obligation under this warranty is the repair or replacement of defective parts. Midmark shall not be liable for any direct, special, indirect, incidental, exemplary, or consequential damages or delay, including, but not limited to, damages for loss of profits or loss of use.

NO AUTHORIZATION

No person or firm is authorized to create for Midmark any other obligation or liability in connection with the products.

THIS WARRANTY IS MIDMARK’S ONLY WARRANTY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. MIDMARK MAKES NO IMPLIED WARRANTIES OF ANY KIND INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACE MENT OF DEFECTIVE PARTS.

SF-1487 REV. A1

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DECLARATION OF CONFORMITY

MIDMARK CORPORATION

Midmark Corporation declares that **Models 641 (-002 thru -005)**
conform to the applicable requirements of the Medical Device Directive 93/42/EEC, Annex VII.

641 (all) Serial Numbers: V2200 to present.

Quality Assurance Manager

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